## ECD FIELD SET-UP AND INSTALLATION

1) Identify location for ECD at a distance determined by company specifications and/or government requirements. See Figure 2 or Figure 3 for Cimarron recommendation.
2) Set the concrete pad at the determined location with the bottom flush with the level grade. The soil should be compacted and rated Class 4 or better (Soil Class referenced in Table 1804.2 of IBC 2006 Edition). ECD concrete pad **must not** be set on Class 5 soils (clay, sandy clay, silty clay, silt and sandy silt) as defined and referenced in Table 1804.2 of IBC 2006 Edition.
3) Erect ECD and anchor to concrete pad. Tighten all bolting follow bolting manufacturer torque specifications. Contact Cimarron for assistance with these bolting specifications.
4) Locate Fuel Gas Scrubber for the pilot gas supply and pipe up according to Figure 1.
5) Locate Drip Pot (Manual Dump) and pipe up according to Figure 2 or Figure 3. The Drip Pot may also be equipped with an automatic level controlled dump and associated liquids booster or pumping system. In this case, the Drip Pot may be located adjacent to the stock tanks as in Figure 3, thus requiring short liquid dump lines back to the stock tanks.

   **Note 1:** Make sure pipe from Stock Tank is sloped to the Drip Pot at an angle of approximately 1 inch per 10 feet. It is also recommended that the vent gas pipe is insulated to minimize liquid condensation as a result of low ambient temperatures.

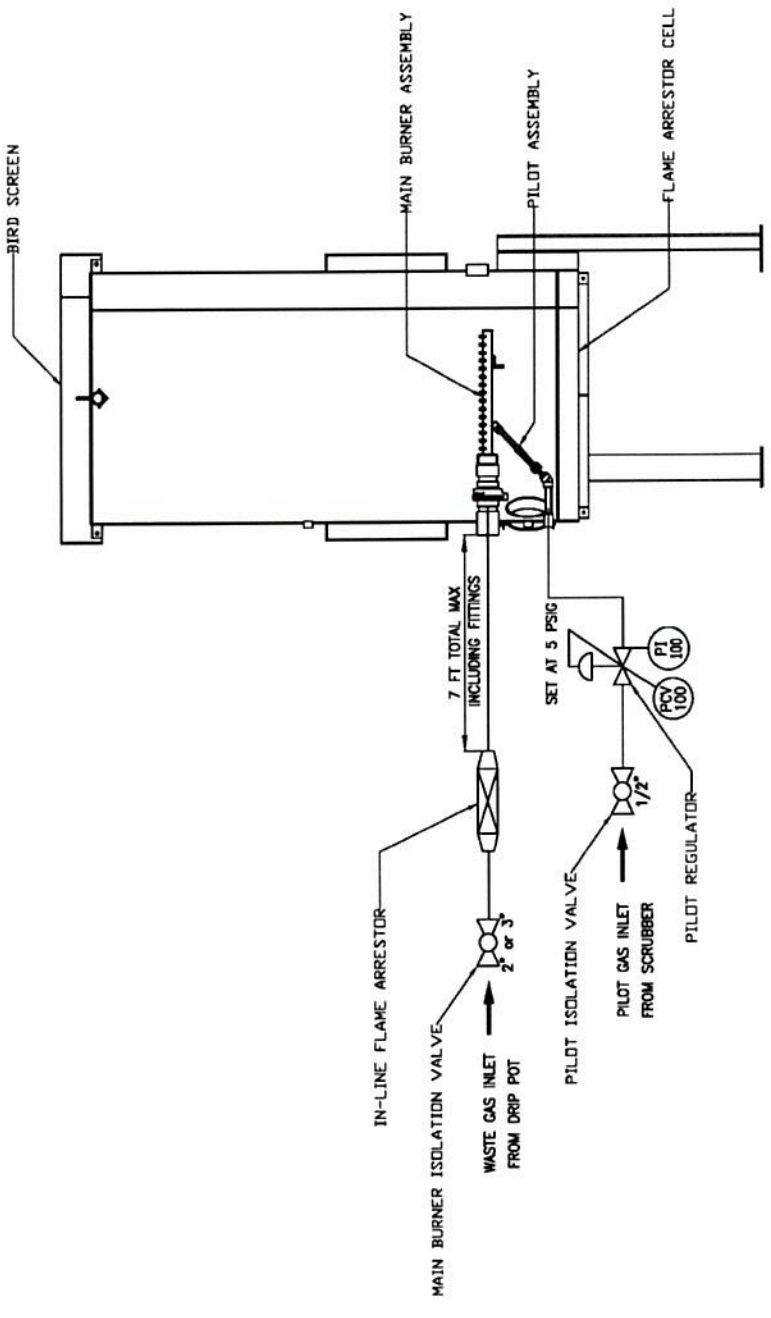
   **Note 2:** It is recommended that the condensed liquid line back to the tanks be protected from freezing (buried, insulated, etc.).

6) Install the in-line gas flame arrestor as indicated in Figure 1. It is imperative this flame arrestor does not exceed a maximum piping length (including fittings) of seven(7) feet from the main burner. It is recommended that hammer union connections are installed upstream and downstream of this gas flame arrestor for easy maintenance access.
7) Install Pilot light assembly as shown in Figure 1.
8) Mount Solar Panel with leg support bracket or alternate pipe mounting system.

   **Note:** Locate and face the panel in the direction that receives the most sunlight during the day.

9) Locate the ARC Igniter and place on the flat surface on the side of the ECD (see page 14).
10) Wire the ARC Igniter to the solar panel and pilot according to ARC Igniter Installation (see page 14).
11) After all piping and wiring is completed, supply gas to the fuel gas scrubber (125psig max).
12) Open pilot gas isolation valve and set pilot pressure regulator at 5 to 7 psig.
13) Start up the ARC Igniter as directed in the ECD Start-up procedures (pg. 16).
14) Once pilot is lit and operating satisfactorily, vent gas from tanks may be introduced to the system.

    **Note:** It might take up to 15 minutes for the vent gas to purge the air out of the waste gas line to the ECD and provide sufficient gas to fully combust.




**WARNING:** To Reduce the risk of back-draft fire or explosion, it is imperative to install the ***In-Line Flame Arrestor*** before the system is put into service.

Figure 1

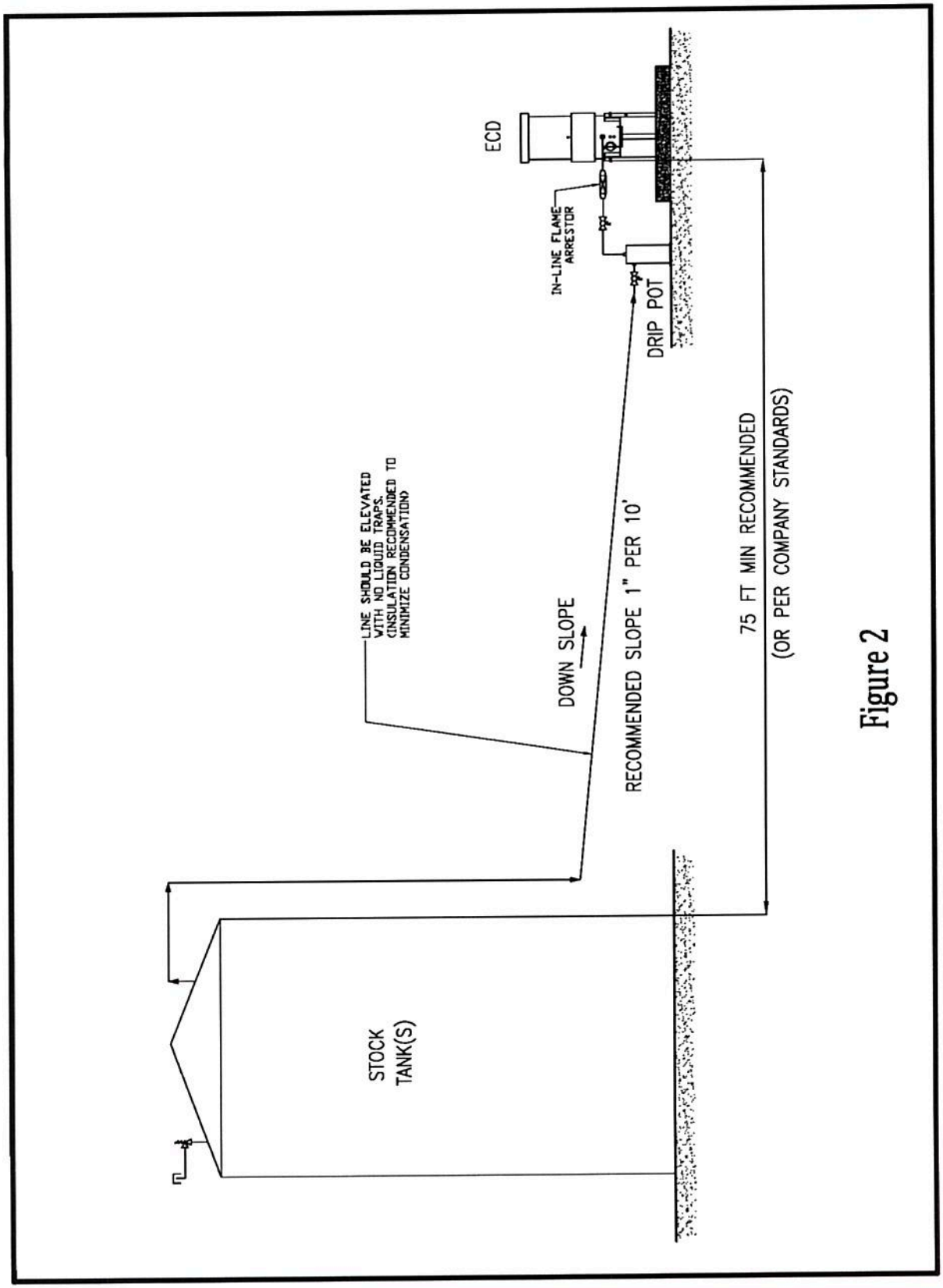

ECD
IN-LINE FLAME ARRESTOR
DRIP POT
LINE SHOULD BE ELEVATED WITH NO LIQUID TRAPS. (INSULATION RECOMMENDED TO MINIMIZE CONDENSATION)
DOWN SLOPE
RECOMMENDED SLOPE 1" PER 10'
75 FT MIN RECOMMENDED
(OR PER COMPANY STANDARDS)
STOCK TANK(S)

Figure 2

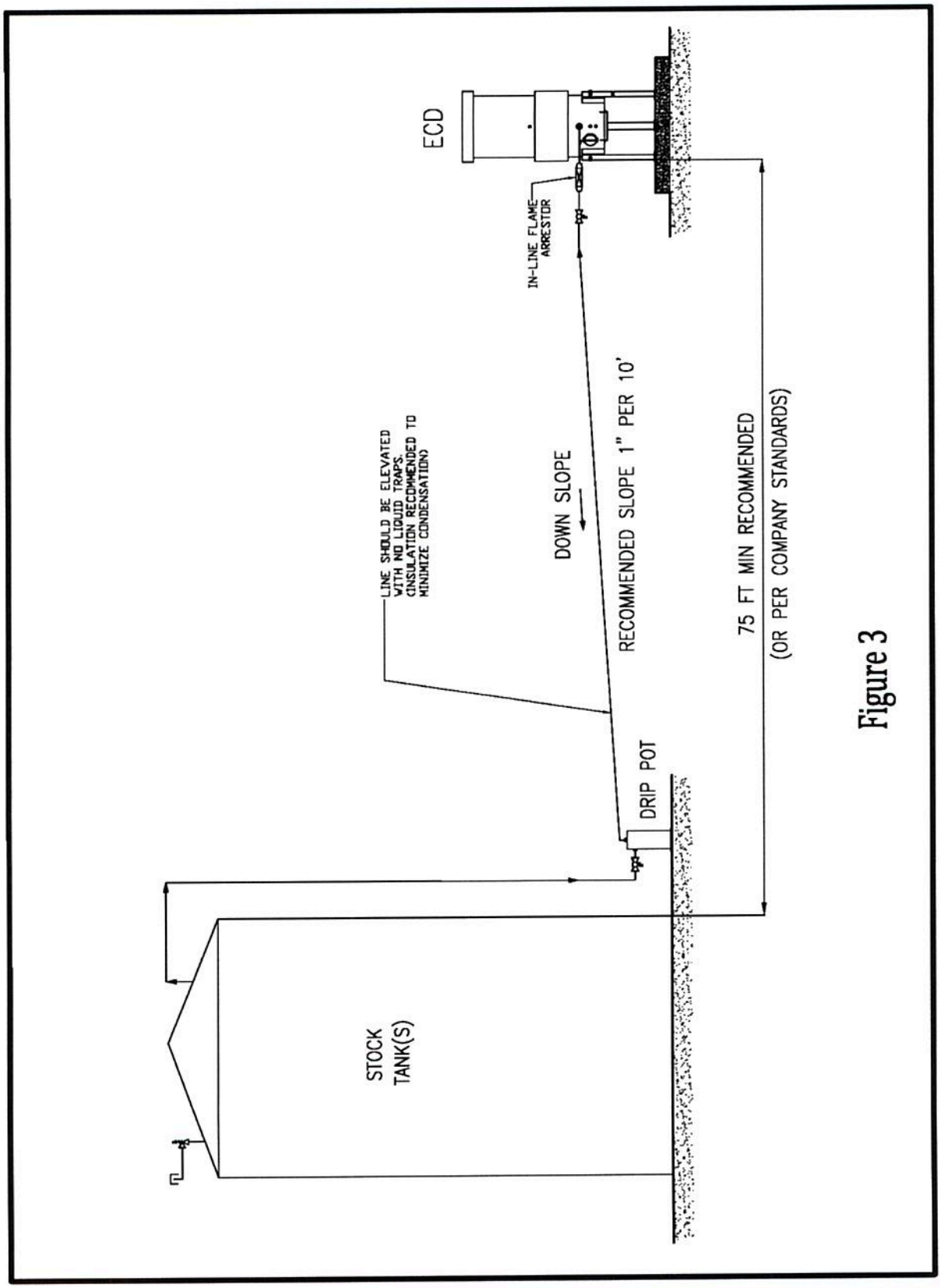

ECD
IN-LINE FLAME ARRESTOR
LINE SHOULD BE ELEVATED WITH NO LIQUID TRAPS. CINSULATION RECOMMENDED TO MINIMIZE CONDENSATIONO
DOWN SLOPE
RECOMMENDED SLOPE 1" PER 10'
75 FT MIN RECOMMENDED
(OR PER COMPANY STANDARDS)
DRIP POT
STOCK TANK(S)

Figure 3